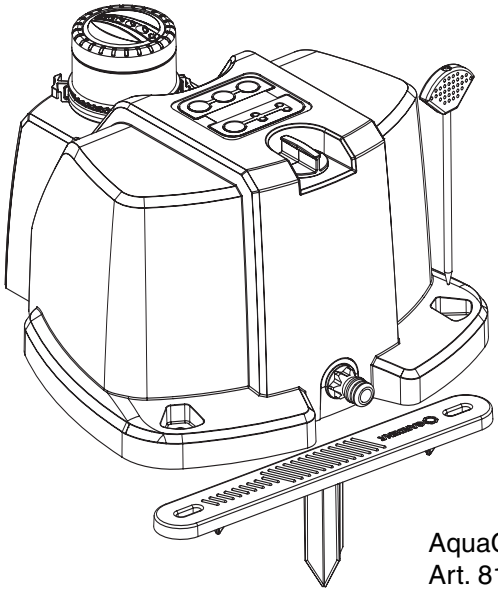
GARDENA®



AquaContour automatic
Art. 8133

D **Betriebsanleitung**
Vielflächen-Regner

GB **Operating Instructions**
Large-Area Irrigation

F **Mode d'emploi**
Arroseur multisurfaces

NL **Instructies voor gebruik**
Multi-instelbare sproeier

S **Bruksanvisning**
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I **Istruzioni per l'uso**
Irrigatore per superfici irregolari

E **Manual de instrucciones**
Aspersor de múltiples superficies

P **Instruções de manejo**
Aspersores de grandes superfícies

DK **Brugsanvisning**
AquaContour automatic

GARDENA Large-Area Irrigation AquaContour automatic

Welcome to the Garden of GARDENA...

Translation of the original instructions from German.
Please read these operating instructions carefully and observe the information they contain. Use these operating instructions to familiarise yourself with the GARDENA Large-Area Irrigation AquaContour automatic, its proper use and the notes on safety.

For safety reasons, children under the age of 16 as well as people who are not familiar with the operating instructions should not use the large-area irrigation.

→ Please keep these instructions in a safe place.

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1. Where to use your Large-Area Irrigation AquaContour automatic

Intended Use:

The GARDENA Large-Area Irrigation forms part of the Original GARDENA System and is designed to be used solely outdoors in domestic and private gardens to water lawns and garden areas.

Please note:

It is not permitted to use the Large-Area Irrigation AquaContour automatic for industrial or commercial applications and in conjunction with chemicals, foodstuffs, highly combustible or explosive substances.

2. Safety Instructions

Batteries:

For reasons of operational reliability the Large-Area Irrigation AquaContour automatic should only be operated with four 1.5 V (alkaline) round cells type IEC LR14!

To prevent failure of the Large-Area Irrigation AquaContour automatic due to weak batteries in conjunction with a lengthy absence, batteries should be replaced in due course.

This will depend on the previous operating life of the batteries and the probable length of operation during your absence, which should not amount to more than 90 hours in total.

Information about usage:

The Large-Area Irrigation AquaContour automatic should not be combined with other sprinklers in one irrigation line.

If there is a change in the range of the Large-Area Irrigation AquaContour automatic, the pressure conditions will change in the irrigation line, so altering the range of the other sprinkler.

→ **Only use separate individual water channels for watering. Do not install in a series with other sprinklers.**

The ranges selected may vary with major fluctuations in water pressure.

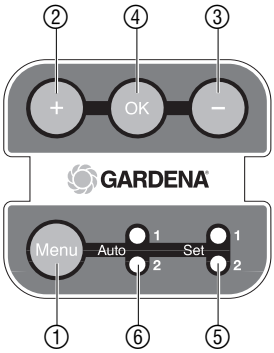
Pressure Tank Units (with pressure chamber) to supply water to the Large-Area Irrigation AquaContour automatic are not recommended as they cause fluctuations in pressure with the switch-on / off pressure.

Sand and other abrasive substances in the water will result in faster wear and reduced output.

→ With water containing sand a Central Filter (e.g. GARDENA Central Filter Art. 1510) should be used.

3. Function

Control panel:



The GARDENA Large-Area Irrigation AquaContour automatic can be used to water individual garden areas.
Two programmed areas can be stored. A jet of water slowly turns in a circle to the end of the programmed area, stops, and turns back again, altering the irrigation range depending on the ranges programmed. The control panel is used to programme the irrigation contour points.

①	**Menu button:**	Choose between programming mode (Set 1 or 2) and operating mode (Auto 1 or 2).
②	**"+" button:**	Increases irrigation range.
③	**"–" button:**	Decreases irrigation range.
④	**OK button:**	Stores the irrigation range selected.
⑤	**Set LEDs:**	Indicate programming mode 1 or 2.
⑥	**Auto LEDs:**	Indicate automatic operating mode 1 or 2. LED 1 or 2 flashes every 10 seconds.

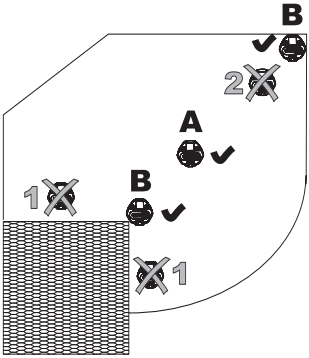
4. Initial Operation

Insert batteries:

The batteries are not included with initial purchase.

→ To insert batteries see **7. Maintenance** *"Replace batteries"*.

Select correct location for Large-Area Irrigation AquaContour automatic:



Correct location:

A Circle water distribution:

- With circle water distribution the large-area irrigation should be positioned as centrally as possible in the watering area to ensure that the irrigation width is not greatly affected by external influences such as wind.

B Sector water distribution:

- With sector water distribution the large-area irrigation should be positioned right at the edge of the watering area (e.g. at the corner of the house).
- The large-area irrigation must be positioned at a point in the watering sector from which it is possible to water the entire garden area required. The maximum range is 9 m (with 2 bar flow pressure at the irrigation unit).

Incorrect location:

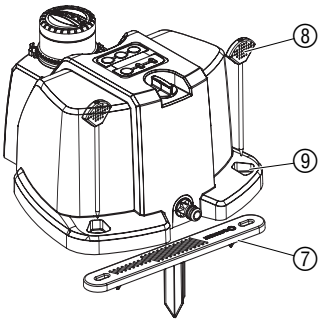
1:

- No obstacles (e.g. walls, trees, etc.) should be located in the watering sector. It must be possible to access every contour point of the areas to be watered in a straight line. With the maximum range the spray height can reach approx. 5 m.

2:

- The minimum range is 2.5 m (at 2 bar). With circle water distribution the large-area irrigation must therefore be located 2.5 m from the edge in all directions **(A)**. If this is not possible the large-area irrigation should be positioned at the edge and the watering area will be a circle sector **(B)**.

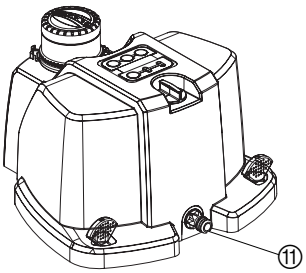
Install ground marker in ground:



The Large-Area Irrigation AquaContour automatic is equipped with 2 ground markers and two programs so it can be used in two different locations, e.g in front of and behind the house, or with very large areas. To ensure that the locations selected can be pinpointed again, the large-area irrigation has to be fixed on the ground markers with removable spikes. The 2 spikes provided are attached to the bottom of the large-area irrigation.
The ground marker should always remain in the ground.

1. Select correct location for large-area irrigation (see above).
2. Insert ground marker ⑦ into soil at this point level with the ground.
3. Place large-area irrigation on ground marker ⑦.
4. Insert 2 spikes ⑧ in openings ⑨ of the large-area irrigation.
   The large-area irrigation is fixed in place on the ground marker.

Connect Large-Area Irrigation AquaContour automatic:



The Large-Area Irrigation AquaContour automatic can be connected to the water supply via the Original GARDENA System. The minimum operating pressure is 1 bar.

1. Fit GARDENA Hose with connection system to the connection ⑪ of the large-area irrigation.
2. Open supply.

5. Operation

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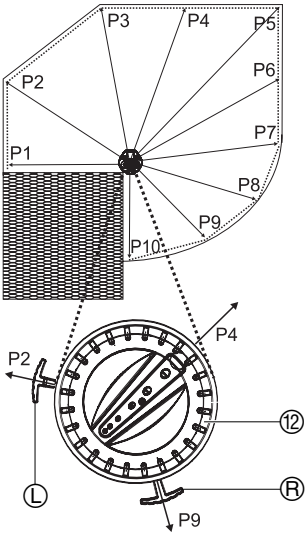
Select watering sector:



A watering sector from 25° to 360° can be selected. To prevent areas being watered unintentionally (e.g. house), the sector should first be selected roughly (slightly too small).

Roughly select sector:

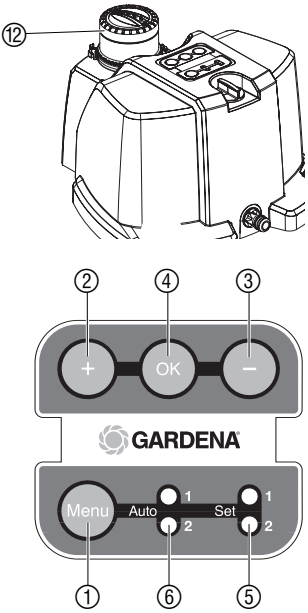
1. Close water supply.
2. Turn the nozzle head ⑫ by hand to the middle of the watering sector (e.g. P4).
3. Roughly select watering sector: turn right sector stop Ⓡ to right-hand side (e.g. P9) and left sector stop Ⓛ to left-hand side (e.g. P2).

Re-adjust sector:

1. Open water supply.
2. Watch watering sector and re-adjust the sector-stops Ⓛ and Ⓡ according to the sector limits (P1 and P10) until the change in direction matches the required irrigation limits.

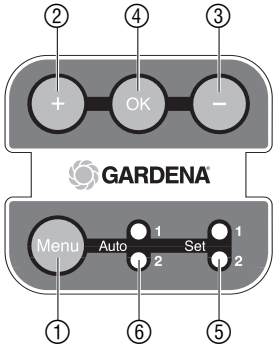
Anti-vandal device:
If the nozzle head is turned beyond the sector stops with the sector stops held, the anti-vandal device will be triggered. As soon as the water supply is opened, the Large-Area Irrigation AquaContour will automatically return to the watering sector. The head of the Large-Area Irrigation can turn around 360° before the original position is reached again.

Programme contour points of irrigation sector:

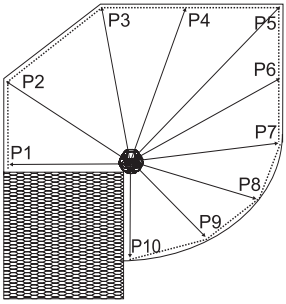


The watering sector has to be selected before programming. Two programmes for different locations can be programmed in. Up to 50 contour points can be programmed with the Large-Area Irrigation AquaContour automatic. The more points that are programmed, the more precisely the contour will be described (e.g. with a circular arc P7 – P10).

1. Open water supply.
   When using for the first time, the minimum range (2.5 m with a flow pressure of 2 bar at the large-area irrigation) is selected.
2. Press **OK** button ④. A green Auto LED ⑥ lights up.
3. Select program: keep pressing **Menu** button ① until the required Set LED ⑤ (1 or 2) lights up.
   The required programme 1 or 2 has been selected and can now be programmed in.
4. Turn the nozzle head ⑫ on the orange ring **by hand** to the left-hand sector limit (in the example P1) and hold.
5. Use the two buttons **"+"** button ② and **"–"** button ③ to set the range so that it reaches P1.
6. Press **OK** button ④.
   The green Auto LED ⑥ lights up for 1 second and the first point P1 has been stored.
7. Turn the nozzle head ⑫ on the orange ring **by hand** to the next irrigation point (e.g. P2) and hold.



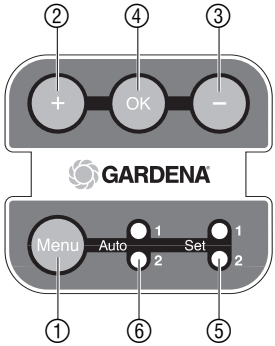
8. Use the two buttons **"+"** button ② and **"–"** button ③ to set the range so that it reaches to the next irrigation point (P2 for example).
9. Press **OK** button ④.
   The green Auto LED ⑥ lights up for 1 second and the point has been stored.
10. Repeat the process from steps 7 to 9 until the right-hand sector limit is reached (in the example P10).
11. Press **Menu** button ①.
    The red Set LED ⑤ goes out, programming is complete, and the green Auto LED ⑥ lights up for 1 minute. The Auto LED then flashes every 10 seconds.
12. Release nozzle head ⑩ and check contour area watered.
13. If the contour is watered correctly, close the water supply.



Information about programming:
As soon as the first point is programmed, any existing programme will be deleted. After programming has been completed, no further points can be deleted or added later on. If the contour has not been set as required, reprogramming with more points will have to be carried out. If no button is pressed for 60 seconds during programming, programming will be automatically ended and the contour stored.

Start / end watering:

Before irrigation can be started, the Large-Area Irrigation AquaContour automatic must have been programmed.



1. Fit the Large-Area Irrigation AquaContour automatic onto one of the two ground markers with the 2 spikes (see **4. Initial Operation** *"Install ground marker in ground")*.
2. Select sector stops according to location (see **5. Operation** *"Select watering sector"*).
3. Press **OK** button ①.
   The green Auto LED ⑥ lights up.
4. Select programme: Keep pressing Menu button ① until the required green Auto LED ⑤ (1 or 2) lights up.
   The required programme 1 or 2 has been selected.

Start watering:

→ Fully open water supply.
Watering will start automatically and the contour of the selected watering sector will be watered.

End watering:

→ Close water supply.
Watering will end. The programme remains unchanged.

6. Putting into Storage

Storage / Overwintering:

The storage location must not be accessible to children.

1. Remove batteries from the Large-Area Irrigation AquaContour automatic.
   The programmes remain unchanged.
2. Store the Large-Area Irrigation AquaContour automatic in a dry place protected from frost.

Disposal:
(in accordance with RL2002/96/EC)

Important!
Return spent batteries to one of the sales outlets or dispose of batteries via your municipal recycling collection centre.
Only dispose of battery once **discharged**.

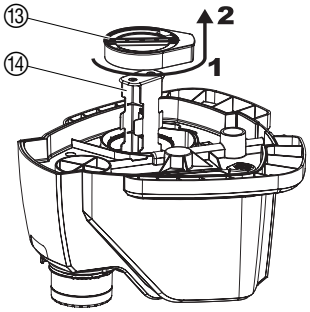
The product must not be added to normal household waste. It must be disposed of in line with local environmental regulations.

→ Important: Make sure that the unit is disposed of via your municipal recycling collection centre.

7. Maintenance

Replace batteries:

If the Auto LED 1 and Set LED 1 start flashing every 8 seconds, the batteries have to be replaced.
The programmes remain unchanged.



1. Turn the battery cover ⑬ on the bottom of the Large-Area Irrigation AquaContour automatic anticlockwise **1** and pull out carefully **2** (bayonet coupling).
2. Remove battery holder ⑭ and insert 4 batteries (1.5 V round cells type IEC LR14).
   When doing so, ensure correct polarity +/-.
3. Re-insert battery holder ⑭.
4. Fit battery cover ⑬ in reverse order.

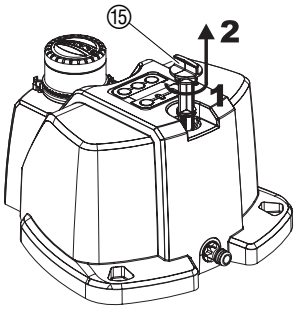
Test battery:

→ During “sleep mode” (the green Auto LED ⑥ does not light up) press the two buttons **“+”** button ② and **“-”** button ③ for 4 seconds.

Both green Auto LED light up: batteries have still enough capacity.

Both red Auto LED light up: replace batteries.

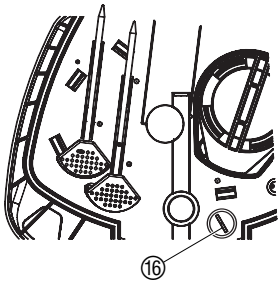
Clean dirt filter:



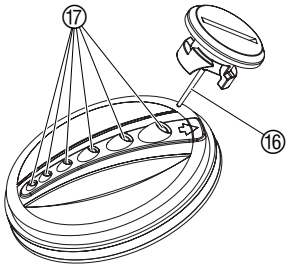
1. Turn the dirt filter ⑮ anticlockwise **1** and pull out carefully **2** (bayonet coupling).
2. Clean dirt filter ⑮ under clean running water.
3. Refit dirt filter ⑮ in reverse order.

Clean nozzles:

If the watering pattern is no longer even, the nozzles can be cleaned using the cleaning needle provided.
The cleaning needle is located on the bottom of the housing.



1. Turn the cleaning needle ⑯ (e.g. with a coin) anticlockwise through 180° and pull out carefully (bayonet coupling).
2. Clean nozzles ⑰ with cleaning needle ⑯.
3. Refit cleaning needle ⑯ in reverse order.



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8. Troubleshooting

Fault	Possible cause	Remedy
Irrigation width smaller than on initial start-up	Dirt filter soiled.	→ Clean dirt filter.
	Tap not opened sufficiently.	→ Open tap further.
	Water pressure too low.	→ Increase water pressure / water supply.
	Batteries are flat.	→ Replace batteries. If the batteries are flat, the range is reduced to the minimum level.
	Irrigation range is programmed incorrectly.	→ Reprogramme irrigation range.
Watering pattern uneven	Nozzles soiled.	→ Clean nozzles.
	Nozzle head soiled.	→ Clean nozzle head.
	Nozzle head damaged.	→ Contact GARDENA Service.
Watering pattern incorrect	Incorrect programme selected.	→ Keep pressing **Menu** button until the correct programme is selected.
	Large-Area Irrigation AquaContour automatic incorrectly positioned by 180° on ground marker.	→ Re-install Large-Area Irrigation AquaContour automatic correctly on ground marker.

⚠ **In the event of other faults please contact GARDENA Service. Repairs should only be carried out by GARDENA service centres or dealers authorised by GARDENA.**

9. Accessories

GARDENA Water Computer	For automatic watering control	**Art. 1805, 1810, 1815, 1825, 1833, 1835**

10. Technical Data

	AquaContour automatic (Art. 8133)
Batteries:	4 x round cells type IEC LR14 (1.5 V alkaline 7.8 Ah)
Operating life of batteries:	approx. 90 hours of watering
Connection:	Original GARDENA System
Operating temperature range:	5 – 60 °C
Pressure range:	1 – 6 bar
Irrigation width:	2.5 – 9 m at 2 bar / 4 – 11 m at 4 bar
Watering area:	255 m^2 at 2 bar / 380 m^2 at 4 bar
Watering sector:	25 – 360°
Water flow rate with max. range:	approx. 600 l/h (at 2 bar) / approx. 800 l/h (at 4 bar)

11. Service / Warranty

Warranty

GARDENA guarantees this product for 2 years (from date of purchase). This guarantee covers all serious defects of the unit that can be proved to be material or manufacturing faults. Under warranty we will either replace the unit or repair it free of charge if the following conditions apply:

- The unit must have been handled properly and in keeping with the requirements of the operating instructions.
- Neither the purchaser or a non-authorised third party have attempted to repair the unit.

As a wear part the dirt filter is not covered by the guarantee.

This manufacturer's guarantee does not affect the user's existing warranty claims against the dealer/seller.

If a fault occurs with your Large-Area Irrigation AquaContour automatic, please return the faulty unit together with a copy of the receipt and a description of the fault, with postage paid to one of the GARDENA Service Centres listed on the back of these operating instructions.

D ***Produkthaftung***	Wir weisen ausdrücklich darauf hin, dass wir nach dem Produkthaftungsgesetz nicht für durch unsere Geräte hervorgerufene Schäden einzustehen haben, sofern diese durch unsachgemäße Reparatur verursacht oder bei einem Teileaustausch nicht unsere Original GARDENA Teile oder von uns freigegebene Teile verwendet werden und die Reparatur nicht vom GARDENA Service oder dem autorisierten Fachmann durchgeführt wird. Entsprechendes gilt für Ergänzungsteile und Zubehör.
GB ***Product Liability***	We expressly point out that, in accordance with the product liability law, we are not liable for any damage caused by our units if it is due to improper repair or if parts exchanged are not original GARDENA parts or parts approved by us, and, if the repairs were not carried out by a GARDENA Service Centre or an authorised specialist. The same applies to spare parts and accessories.
F ***Responsabilité***	Nous vous signalons expressément que GARDENA n'est pas responsable des dommages causés par ses appareils, dans la mesure où ces dommages seraient causés suite à une réparation non conforme, dans la mesure où, lors d'un échange de pièces, les pièces d'origine GARDENA n'auraient pas été utilisées, ou si la réparation n'a pas été effectuée par le Service Après-Vente GARDENA ou l'un des Centres SAV agréés GARDENA. Ceci est également valable pour tout ajout de pièces et d'accessoires autres que ceux préconisés par GARDENA.
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I ***Responsabilità del prodotto***	Si rende espressamente noto che, conformemente alla legislazione sulla responsabilità del prodotto, non si risponde di danni causati da nostri articoli se originati da riparazioni eseguite non correttamente o da sostituzioni di parti effettuate con materiale non originale GARDENA o comunque da noi non approvato e, in ogni caso, qualora l'intervento non venga eseguito da un centro assistenza GARDENA o da personale specializzato autorizzato. Lo stesso vale per le parti complementari e gli accessori.
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P ***Responsabilidade sobre o produto***	Queremos salientar que segundo a lei da responsabilidade do fabricante, nós não nos responsabilizaremos por danos causados pelo nosso equipamento, quando estes ocorram em decorrência de reparações inadequadas ou da substituição de peças por peças não originais da GARDENA, ou peças não autorizadas. A responsabilidade tornar-se-à nula também depois de reparações realizadas por oficinas não autorizadas pela GARDENA. Esta restrição valerá também para peças adicionais e acessórios.
DK ***Produktansvar***	Vi gør udtrykkeligt opmærksom på at i henhold til produktansvarsloven er vi ikke ansvarlige for skader forårsaget af vores udstyr, hvis det skyldes uautoriserede reparationer eller hvis dele er skiftet ud og der ikke er anvendt originale GARDENA dele eller dele godkendt af os, eller hvis reparationerne ikke er udført af GARDENA-service eller en autoriseret fagmand. Det samme gælder for ekstra udstyr og tilbehør.

D EU-Konformitätserklärung

MaschinenVerordnung (9. GSGVO) / EMVG / Niedersp. RL

Der Unterzeichnete GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, bestätigt, dass die nachfolgend bezeichneten Geräte in der von uns in Verkehr gebrachten Ausführung die Anforderungen der harmonisierten EU-Richtlinien, EU-Sicherheitsstandards und produktspezifischen Standards erfüllen. Bei einer nicht mit uns abgestimmten Änderung der Geräte verliert diese Erklärung ihre Gültigkeit.

GB EU Certificate of Conformity

The undersigned GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, hereby certifies that, when leaving our factory, the units indicated below are in accordance with the harmonised EU guidelines, EU standards of safety and product specific standards. This certificate becomes void if the units are modified without our approval.

F Certificat de conformité aux directives européennes

Le constructeur, soussigné : GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, déclare qu'à la sortie de ses usines le matériel neuf désigné ci-dessous était conforme aux prescriptions des directives européennes énoncées ci-après et conforme aux règles de sécurité et autres règles qui lui sont applicables dans le cadre de l'Union européenne. Toute modification portée sur ce produit sans l'accord express de GARDENA supprime la validité de ce certificat.

NL EU-overeenstemmingsverklaring

Ondergetekende GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, bevestigt, dat het volgende genoemde apparaat in de door ons in de handel gebrachte uitvoering voldoet aan de eis van, en in overeenstemming is met de EU-richtlijnen, de EU-veiligheidsstandaard en de voor het product specifieke standaard. Bij een niet met ons afgestemde verandering aan het apparaat verliest deze verklaring haar geldigheid.

S EU Tillverkarintyg

Undertecknad firma GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, intygar härmed att nedan nämnda produkter överensstämmer med EU:s direktiv, EU:s säkerhetsstandard och produktspecifikation. Detta intyg upphör att gälla om produkten ändras utan vårt tillstånd.

I Dichiarazione di conformità alle norme UE

La sottoscritta GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, certifica che il prodotto qui di seguito indicato, nei modelli da noi commercializzati, è conforme alle direttive armonizzate UE nonché agli standard di sicurezza e agli standard specifici di prodotto. Qualunque modifica apportata al prodotto senza nostra specifica autorizzazione invalida la presente dichiarazione.

E Declaración de conformidad de la UE

El que subscribe GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, declara que la presente mercancía, objeto de la presente declaración, cumple con todas las normas de la UE, en lo que a normas técnicas, de homologación y de seguridad se refiere. En caso de realizar cualquier modificación en la presente mercancía sin nuestra previa autorización, esta declaración pierde su validez.

P Certificado de conformidade da UE

Os abaixo mencionados GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, por este meio certificam que ao sair da fábrica o aparelho abaixo mencionado está de acordo com as directrizes harmonizadas da UE, padrões de segurança e de produtos específicos. Este certificado ficará nulo se a unidade for modificada sem a nossa aprovação.

DK EU Overensstemmelse certificat

Undertegnede GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm bekræfter hermed, at enheder listet herunder, ved afsendelse fra fabrikken, er i overensstemmelse med harmoniserede EU retningslinier, EU sikkerhedsstandarder og produktspecifikationsstandarder. Dette certifikat træder ud af kraft hvis enhederne er ændret uden vor godkendelse.

Bezeichnung des Gerätes:	Vielflächen-Regner
Description of the unit:	Large-Area Irrigation
Désignation du matériel :	Arroseur multisurfaces
Omschrijving van het apparaat:	Multi-instelbare sproeier
Produktbeskrivning:	AquaContour automatic
Descrizione del prodotto:	Irrigatore per superfici irregolari
Descripción de la mercancía:	Aspersor de múltiples superficies
Descrição do aparelho:	Aspersores de grandes superfícies
Beskrivelse af enhederne:	AquaContour automatic

Typ:	AquaContour automatic	Art.-Nr.:	8133
Type:		Art. No.:	
Type :		Référence :	
Typ:		Art. nr.:	
Typ:		Art.nr. :	
Modello:		Art. :	
Tipo:		Art. Nº:	
Tipo:		Art. Nº:	
Type:		Varenr. :	

EU-Richtlinien:	
EU directives:	
Directives européennes :	98/37/EG : 1998
EU-richtlijnen:	2006/42/EG : 2006
EU direktiv:	2004/108/EC
Direttive UE:	
Normativa UE:	
Directrizes da UE:	
EU Retningslinier:	

Harmonisierte EN:	EN ISO 1200-1:04/04
	EN ISO 1200-2:04/04

Anbringungsjahr der CE-Kennzeichnung:	2006
Year of CE marking:	
Date d'apposition du marquage CE :	
Installatiejaar van de CE-aanduiding:	
CE-Märkningsår:	
Anno di rilascio della certificazione CE:	
Colocación del distintivo CE:	
Ano de marcação pela CE:	
CE-Mærkningsår:	

Ulm, den 01.08.2006	Der Bevollmächtigte
Ulm, 01.08.2006	Authorised representative
Fait à Ulm, le 01.08.2006	Représentant légal
Ulm, 01-08-2006	Gemachtigde
Ulm, 2006.08.01.	Behörig Firmatecknare
Ulm, 01.08.2006	Rappresentante autorizzato
Ulm, 01.08.2006	Representante autorizado
Ulm, 01.08.2006	Representante autorizado
Ulm, 01.08.2006	Teknisk direktør

Peter Lameli
Vice President

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